ZOTAC

ZBOX nano

YOUR PALM-SIZED MINI-PC

ZOTAC ZBOX nano ID62
ZOTAC ZBOX nano ID62 PLUS

USER'S MANUAL

ZOTAC ZBOX nano
User's Manual

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Every effort has been made to ensure that the contents of this manual are correct and up to date. However, the manufacturer makes no guarantee regarding the accuracy of its contents, and reserves the right to make changes without prior notice.

CAUTION:
Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

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Product specifications

Chipset
- Intel NM70

Product Dimensions
- 127mm x 127mm x 45mm

Onboard CPU
- Intel Core processor 1007U (dual core, 1.5GHz)

Onboard graphics
- Intel HD Graphics
- HDMI & DP output

Memory support
- One 204-pin DDR3-1600/1333 SO-DIMM slot
- Up to 8 GB of memory

USB ports
- Four USB 2.0 ports & two USB 3.0 ports

Storage support
- SATA 6.0 Gb/s transfer rates
- Supports one 2.5-inch SATA HDD or SSD (9.5mm max height)
- One eSATA port

Network support
- Gigabit (10/100/1000Mbps) LAN
- IEEE 802.3 compatible

WiFi/BT support
- Compliant with IEEE802.11b/g/n standard
- High speed wireless connection up to 300 Mbps
- Fully qualified Bluetooth v4.0

Audio
- 2-channel high-definition audio
- Jack-sensing compatible
- Optical SPDIF

Operating System support
- Windows 7 & Windows 8
- 32-bit and 64-bit support

IR receiver
- Support carrier frequencies 36k Hz

Safety information

Your ZOTAC ZBOX is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- Read and follow all instructions in the documentation before you operate your system.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable surface with the provided stand. Never use the system alone without the stand.
- Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- Use this product in environments with ambient temperatures between 0℃ and 35℃.
- If you use an extension cord, please use the UL listed cord and make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill water or any other liquids on your system.
- When the system is turned off, a small amount of electrical current still flows. Always unplug all power, modem, and network cables from the power outlets before cleaning the system.
- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
  - The power cord or plug is damaged.
  - Liquid has been spilled into the system.
  - The system does not function properly even if you follow the operating instructions.
  - The system was dropped or the cabinet is damaged.
  - The system performance changes.

Welcome

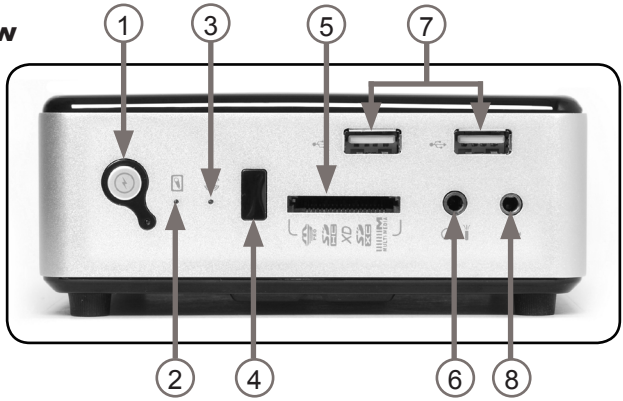
Congratulations on your purchase of the ZOTAC ZBOX nano mini-PC. The following illustration displays the package contents of your new ZOTAC ZBOX nano. Please contact your retailer If any of the below items are damaged or missed.

Package contents

- 1 x ZOTAC ZBOX nano mini-PC
- 1 x ZOTAC VESA mount
- 4 x Mount screws
- 1 x AC Adapter
- 1 x Power Cord
- 1 x Headphone/SPDIF adapter
- 1 x External USB IR receiver
- 1 x WiFi antenna
- 1 x Remote Control
- 2 x CR2032 Lithium Cells
- 1 x User Manual
- 1 x Quick Start Guide
- 1 x Support DVD

Getting to know your ZOTAC ZBOX nano

Front view

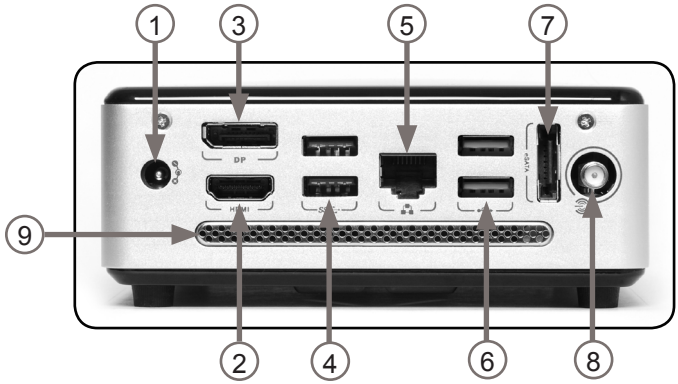


Refer to the diagram below to identify the components on this side of the system

1. **Power switch**
   The power switch turns the mini-PC ON and OFF.
2. **HDD status indicator**
   The hard disk LED blinks when data is being written onto or read from the hard disk drive
3. **WiFi status indicator**
   The WiFi LED blinks when data is being transfered over WiFi.
4. **IR receiver**
   The IR receiver is used to receive signals from the IR remote control.
5. **Memory card slot**
   The built-in memory card reader reads and writes MMC/SD/SDHC/MS/MS Pro/ xD/SDXC cards used in devices such as digital cameras, MP3 players, mobile phones and PDAs.
6. **Headphone / mini-Optical S/PDIF jack**
   The headphone / mini-Optical SPDIF jack (3.5mm) is used to connect the system's audio output to amplified speakers or headphones. It supports mini-Optical S/PDIF output with the included mini-Optical S/PDIF adapter. The optical S/PDIF output enables connectivity with digital audio receivers and speakers for crystal clear digital audio and surround sound from compatible soundtracks.
7. **USB 2.0 ports**
   The USB (Universal Serial Bus) ports are compatible with USB devices such as keyboards, mice, cameras and hard disk drives.
8. **Microphone jack**
   The microphone jack is designed to connect a microphone for video conferencing, voice narrations or simple audio recordings.

Note 1: The power adapter may become warm to hot when in use. Do not cover the adapter and keep it away from your body.
Note 2: Due to the unique tool-less customizable design, some connectors are placed upside down.

Rear view



Refer to the diagram below to identify the components on this side of the system.

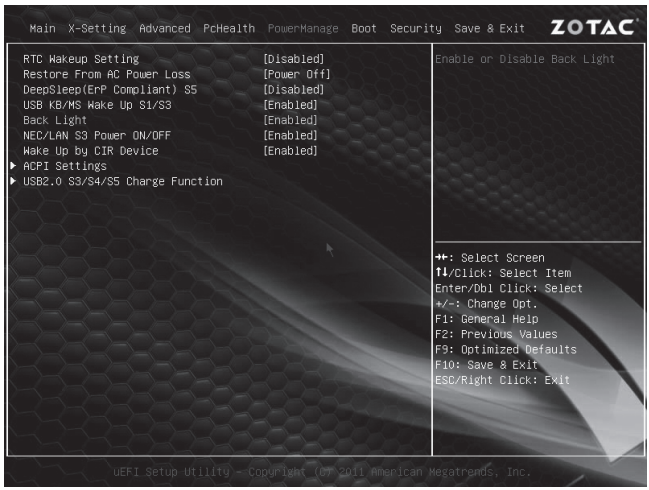
1. **Power input (DC19V)**
   The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the mini-PC. To prevent damage to the mini-PC, always use the supplied power adapter.
2. **HDMI output**
   The HDMI (High Definition Multimedia Interface) output supports Full HD 1080p displays such as an HDTV or monitor.
3. **DisplayPort**
   The DisplayPort output supports displays with resolutions up to 2560x1600.
4. **USB 3.0 ports**
   The USB 3.0 port supports the SuperSpeed USB 3.0 devices and is backwards compatible with USB 2.0/1.1 devices. Use this port for USB 3.0 devices for maximum performance with USB 3.0 compatible devices.
5. **Ethernet port**
   The eight-pin RJ-45 LAN port supports standard Ethernet cable for connection to a local area network (LAN) with speeds of 10/100/1000Mbps.
6. **USB 2.0 ports**
   The USB (Universal Serial Bus) ports are compatible with USB devices such as keyboards, mice, cameras and hard disk drives.
7. **eSATA port**
   The external SATA port is compatible with e.SATA devices such as external hard drives and Blu-ray drives.
8. **WiFi antenna connector**
   The WiFi antenna connector supports the included WiFi antenna.
9. **Ventilation area**
   The ventilation area is vital for proper system cooling. Do not cover.

BIOS settings of specific functions

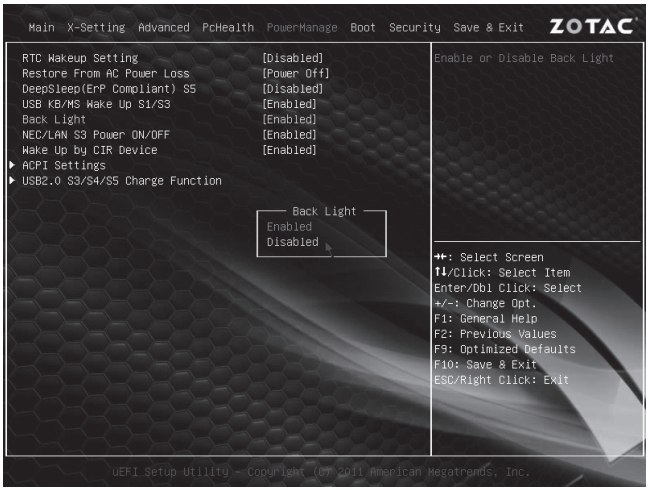
The ZOTAC ZBOX nano has specific functions that can be enabled or disabled in the BIOS settings such as LED indicator, USB 2.0 charging and integrated IR receiver.

How to disable the ring LED indicator

1. Turn on the ZBOX nano mini-PC, then press <Delete> to enter the BIOS SETUP UTILITY.
2. Use the arrow keys to navigate to the **PowerManage** menu and select **Back Light**.


Main X-Setting Advanced PcHealth PowerManage Boot Security Save & Exit
ZOTAC
RTC Wakeup Setting [Disabled]
Restore From AC Power Loss [Power Off]
DeepSleep(ErP Compliant) S5 [Disabled]
USB KB/MS Wake Up S1/S3 [Enabled]
Back Light [Enabled]
NEC/LAN S3 Power ON/OFF [Enabled]
Wake Up by CIR Device [Enabled]
ACPI Settings
USB2.0 S3/S4/S5 Charge Function
Enable or Disable Back Light
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC/Right Click: Exit
UEFI Setup Utility - Copyright (C) 2011 American Megatrends, Inc.

3. Press <Enter> and select **Disabled**.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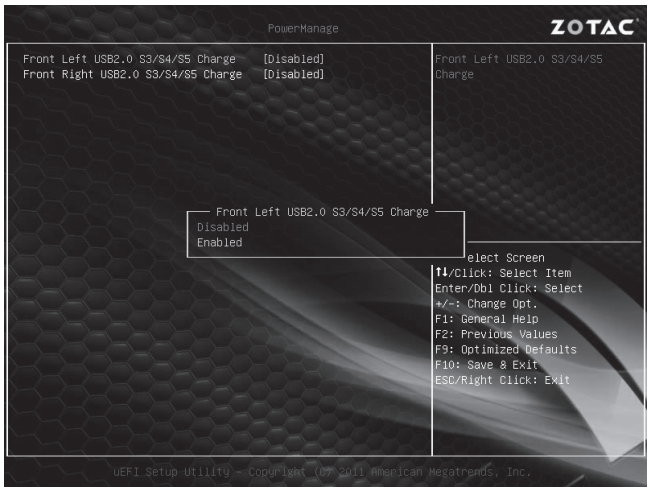
Wake Up by CIR Device [Enabled]
ACPI Settings
USB2.0 S3/S4/S5 Charge Function
Enable or Disable Back Light
Back Light
Enabled
Disabled
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC/Right Click: Exit
uEFI Setup Utility – Copyright (C) 2011 American Megatrends, Inc.

4. Press F10 to save the configuration and exit. The PC will reboot.

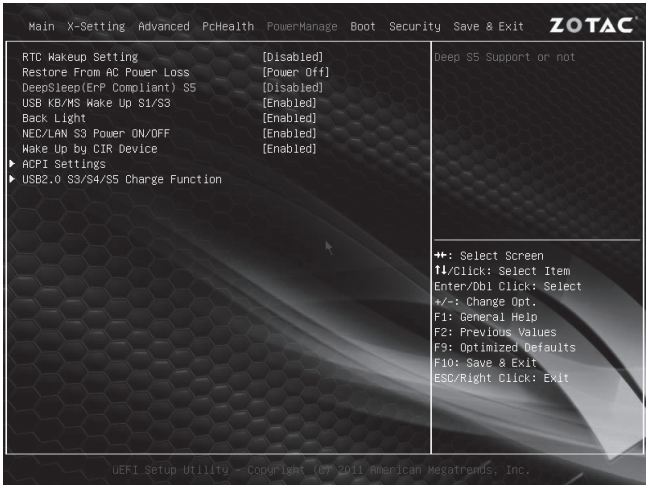
How to enable USB 2.0 charge (for S3/S4/Sleep status)

1. In **PowerManage** menu, select **USB 2.0 S3/S4/S5 Charge Function** and press <Enter>**.**
2. Use the arrow keys to enter the item **Front(Left/Right) USB2.0 S3/S4/S5 Charge**, and select **Enabled**.



3. Press F10 to save the configuration and exit.

Note: Before charging via USB 2.0 in S5 status, please make sure the Deep S5 (**Deep Sleep** in **PowerManage** menu) is disabled.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DeepSleep(ErP Compliant) S5 [Disabled]
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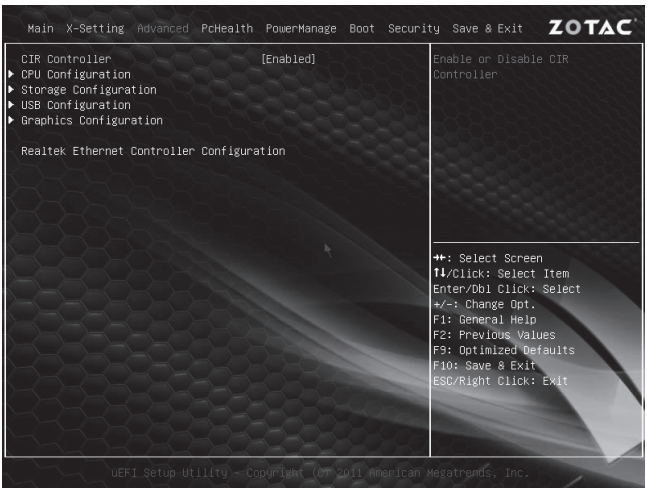
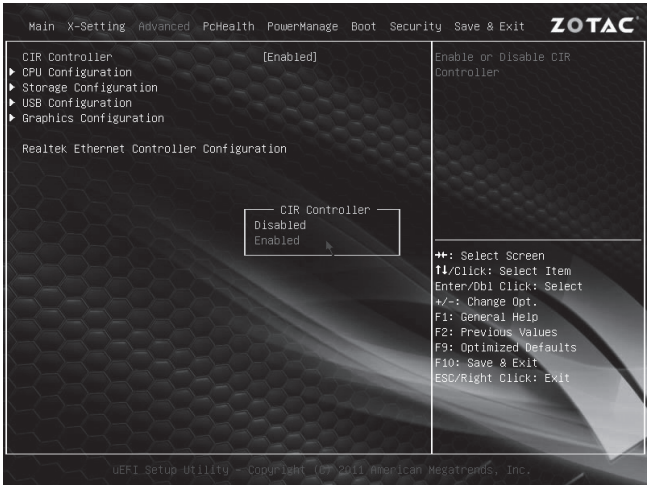
Back Light [Enabled]
NEC/LAN S3 Power ON/OFF [Enabled]
Wake Up by CIR Device [Enabled]
ACPI Settings
USB2.0 S3/S4/S5 Charge Function
Deep S5 Support or not
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC/Right Click: Exit
uEFI Setup Utility - Copyright (C) 2011 American Megatrends, Inc.

How to disable integrated IR receiver

1. Use the arrow keys to navigate to the **Advanced** menu and select **CIR Controller**.



2. Enter **CIR Controller** and select **Disabled**.



Enabled: enable the internal IR receiver (default)
Disabled: disable the internal IR receiver

3. Press F10 to save the configuration and exit.

Customizing the ZOTAC ZBOX nano

Before installing hardware, please follow the instructions below to remove the cover of your ZOTAC ZBOX.

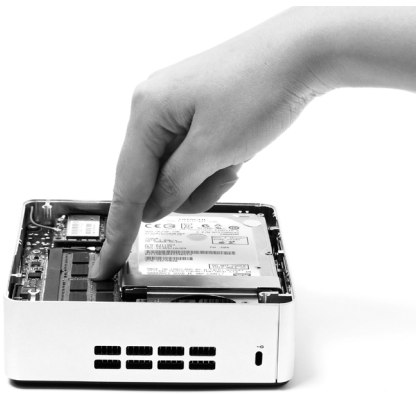
1. Remove the four screws securing the bottom cover into place.

2. Locate side with engraving that says “Pull Upward.” Pull upward on the cover as shown below

Installing a memory module

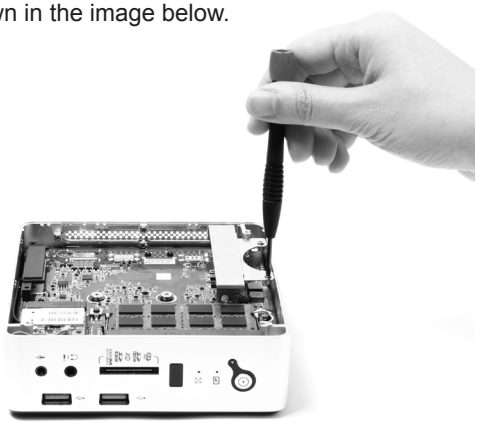
1. Locate the SO-DIMM memory slot and insert a SO-DIMM memory module into the slot at a 45 degree angle.

2. Gently press down on the memory module until it locks into place by the arms of the memory slot.



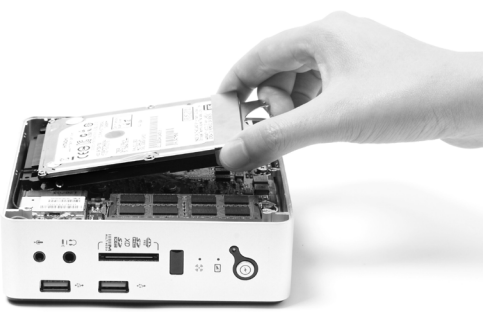
Installing a hard disk

1. Locate the hard disk bracket, remove the 2 screws, and remove the hard disk bracket as shown in the image below.

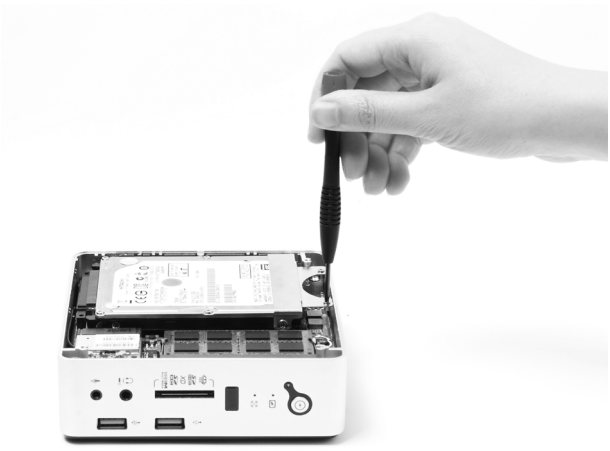


2. Install the hard disk bracket onto a 2.5-inch SATA hard disk with 2 screws.

3. Insert the hard disk into the socket and gently slide into the connector.

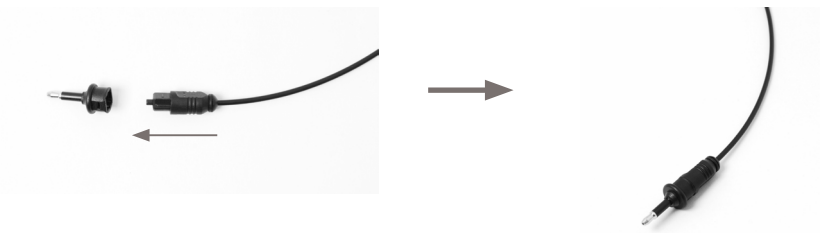


4. Reinstall the screws for the hard disk bracket.



Connecting a S/PDIF cable

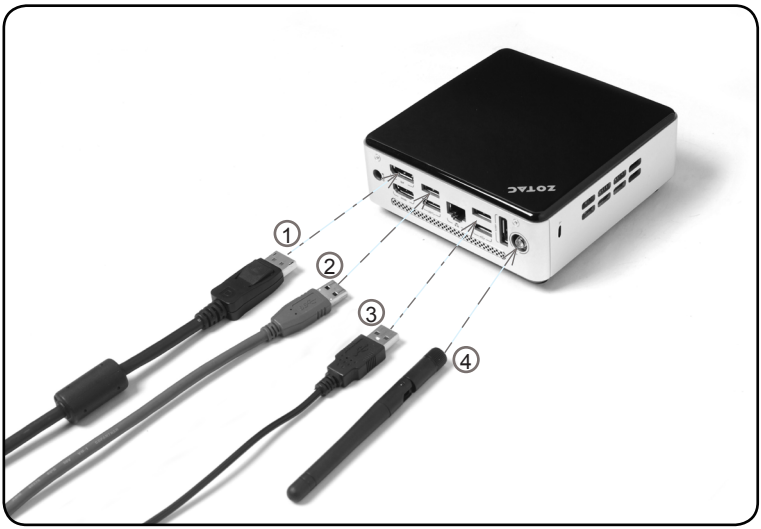
1. Connect the S/PDIF cable to the mini-Optical S/PDIF adapter.



2. Locate the front panel and connect the mini-Optical S/PDIF adapter to the headphone / mini-Optical S/PDIF jack.

Setting up the ZOTAC ZBOX nano

Please connect your peripherals before using your ZOTAC ZBOX

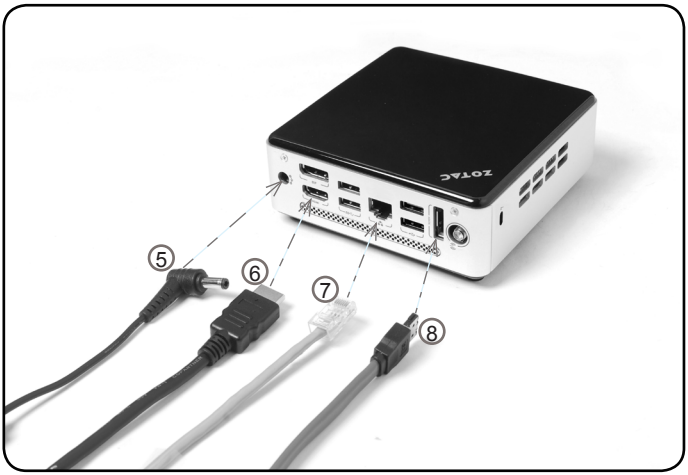


1. Connecting a DisplayPort display
Connect the DisplayPort connector to the DP port.

2. Connecting USB 3.0 device
Connect USB 3.0 devices such as external hard drives, SSDs and flash drives to the USB 3.0 port.

3. Connecting USB 2.0 device
Connect USB 2.0 devices such as wired/wireless keyboards, mice and printers to the USB 2.0 ports.

4. Connecting the WiFi antenna module
Connect the WiFi antenna module to the WiFi antenna connector.



5. Turning on the system

Connect the supplied AC adapter to the DC IN jack on the system rear panel and then press the power switch on the front panel to turn on the system.

6. Connecting to an HDMI display

Connect one end of an HDMI cable to the HDMI port on the system rear panel and the other end to a HDMI-compatible display such as an HDTV or monitor. (When both the HDMI and the DP are connected, the audio output is from HDMI by default.)

7. Connecting to a network device

Connect one end of a network cable to the LAN port on the system rear panel and the other end to a network hub, switch or router.

8. Connecting an eSATA device

Connect the eSATA cable to the eSATA port.

Note: When your ZOTAC ZBOX nano is not in use, unplug the power adapter or switch off the AC outlet to conserve power.

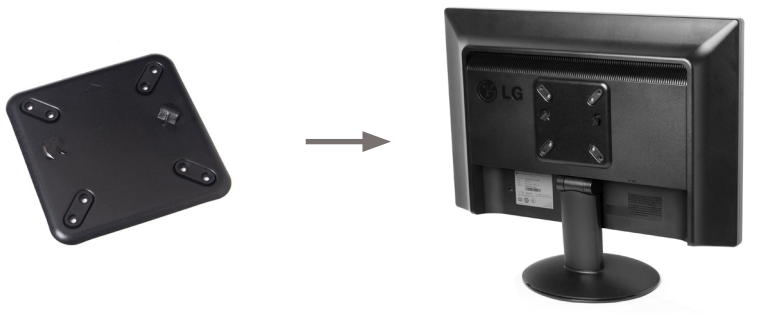
Positioning the ZOTAC ZBOX nano

- Do not position the ZOTAC ZBOX where the ventilation holes are covered. To guarantee proper use, leave 4 inches (10 cm) of spacing in front of the ventilation holes.
- ZOTAC ZBOX nano mini-PC systems provide ample connectivity in a tiny form factor, please choose connectors and cables in appropriate sizes to avoid interference.

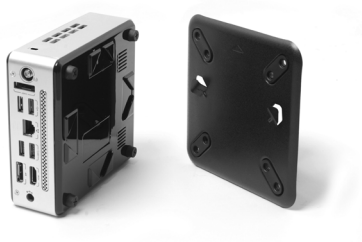
Mounting the ZOTAC ZBOX nano to a LCD monitor

You can attach your ZOTAC ZBOX to the back of a VESA75/100 compliant monitor.

1. Secure the VESA mount to the LCD monitor using 4 screws (not included).
   Disclaimer: ZOTAC cannot be held liable for damages resulting from an improper installation.



2. Align the ZOTAC ZBOX mounting holes to the VESA mount attachment pegs. Attach the ZOTAC ZBOX to the VESA mount and gently press down to secure the ZBOX to the mount.



3. Connect the ZOTAC ZBOX nano to your LCD monitor with an HDMI/DP cable.

IR receiver

Users can control compatible applications with the integrated IR receiver or included external USB IR receiver.

1. Integrated IR receiver

Note: Please install CIR driver from DVD before using the integrated IR receiver.

Integrated IR receiver

2. External USB IR receiver (please connect the external USB IR receiver to a USB 2.0 port)

External USB IR receiver

Remote control (optional)

The ZOTAC ZBOX nano ships with a remote control. Follow the instructions below to use the remote control.

Function keys

Navigation Buttons

START, OK, BACK, INFORMATION

UP, DOWN, LEFT, RIGHT

Shortcut Buttons

GUIDE, SLEEP, WAKE

Audio and Video Buttons

VOLUME UP / DOWN, MUTE, CHANNEL UP / DOWN

Playback Buttons

RECORD, PAUSE, STOP

REW, PLAY, FWD, REPLAY, SKIP

Numeric Keypad

1	2	3
4	5	6
7	8	9
* ·	0	#

CLEAR ENTER

Teletext Buttons

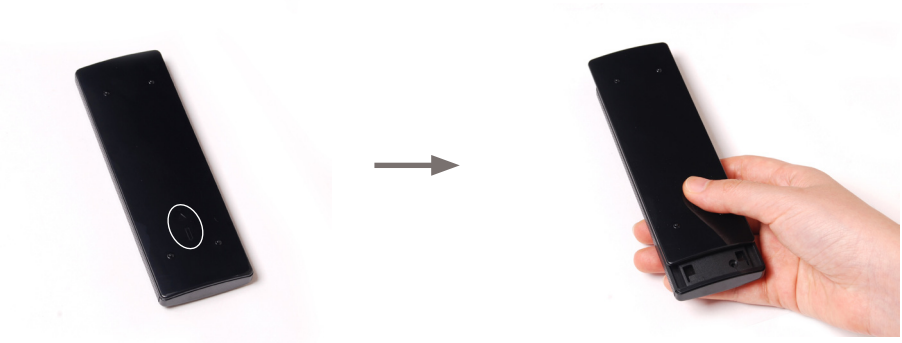
TELETEXT

RED, GREEN, YELLOW, BLUE

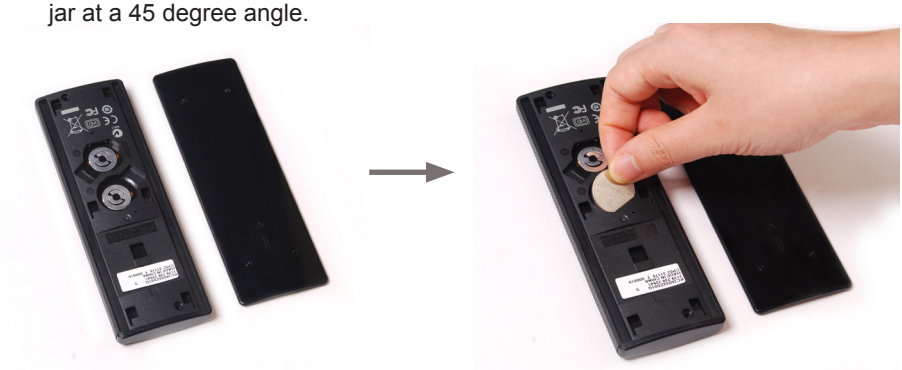
Note: Some remote control functions listed above are only available with select applications. You are unable to use these functions if the software is not compatible with the remote. The ZOTAC ZBOX nano is designed to meet Windows Media Center standards. The MCE remote control is compatible with Windows 7 Media Center.

Lithium Battery installation

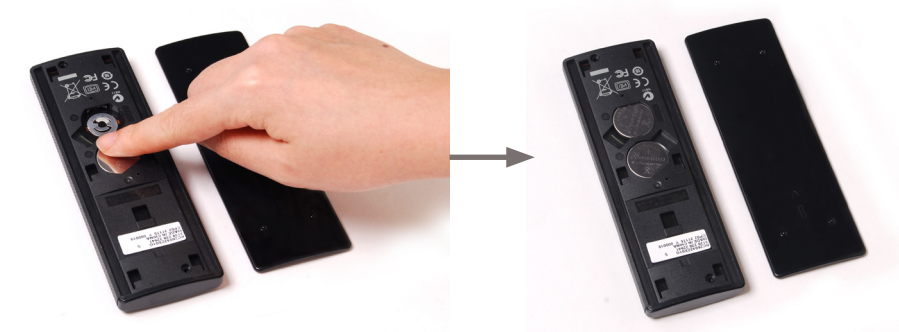
1. Locate the arrow ↑ on the rear cover of the remote control, and push the cover as desginated by the arrow.



2. Remove the rear cover, and insert the CR2032 lithium batteries into the battery jar at a 45 degree angle.



3. Gently press down on the CR2032 lithium batteries, and reinstall the rear cover.



Installing drivers and software

Installing an operating system

The ZOTAC ZBOX does not ship with an operating system preinstalled. The user must install the operating system before the ZOTAC ZBOX can be used. The following operating systems are supported:

- Windows 7
- Windows 8

Follow the instructions below to install an operating system:

1. Attach external DVD drive via USB.
2. Insert disk for operating system
3. Wait for the ZOTAC ZBOX nano to boot from the disk.
4. Follow the onscreen directions to install the operating system.
5. Install system drivers to gain full functionality of the ZOTAC ZBOX hardware and features.
   Note: For best compatibility, please only use the eSATA or USB 2.0 ports as the OS installation source drive connection.

Installing system drivers

Before you can use the full features of the ZOTAC ZBOX nano, the system drivers must be installed. The following types of operating systems are supported by the ZOTAC ZBOX nano driver DVD:

- Windows 7
- Windows 8

Follow the instructions below to install the system drivers:

1. Insert the ZOTAC ZBOX nano driver DVD. If autorun is enabled, the driver installation main menu will show up automatically.
   Note: If autorun is disabled, you can click the file Launch.EXE to bring up the driver installation main menu.
2. The following drivers are available on the DVD:
   - Intel Chipset Driver
   - HDA Sound Driver
   - Intel Graphics Driver
   - Ethernet PCI-E Driver
   - USB 3.0 Controller Driver
   - Wireless Network Driver
   - Intel Management Engine
   - CIR Driver
   - Bluetooth Driver
   - MassStorage Driver

• USB Charger (optional)

Note: If you want to use USB charger for iPhone/iPad, please install the driver at X:\Utility\Software\Usb Charger\setup.exe (X: your driver disk letter).

Click the icon ››| to review the Page 2 of the driver DVD:

• E-SATA Controller

☞ Each driver must be installed individually to ensure proper operation of the ZOTAC ZBOX nano.

3. Select the driver you want to install. The driver installer should launch.
4. Follow the onscreen instructions for the selected driver to install.
5. Restart the system.

Using your ZOTAC ZBOX nano

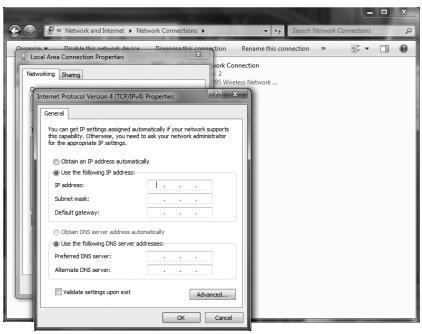
Configuring wireless connection

Please follow the instructions below to connect to a wireless network:

1. Double-click the wireless network icon (pic) in the notification area.
2. Select the wireless network you want to connect to from the list and click Connect.
3. After connection is established, you will see “Connected.”
   Note 1: For security concerns, Do NOT connect to an unsecured network, otherwise, the transmitted information without encryption might be visible to others.
   Note 2: Enter the network security key if necessary.

Configuring wired connection

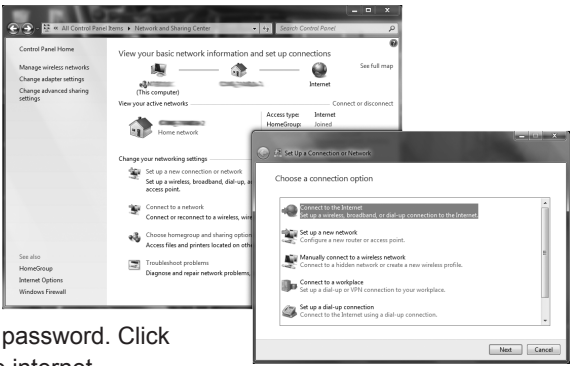
Using a static IP



1. Right-click the network icon in the notification area and select “Open Network Connections”.
2. Right-click “Local Area Connection” and select “Properties”.
3. Highlight “Internet Protocol (TCP/IP)” and click “Properties”.
4. Select “Use the following IP address”.
5. Enter your IP address, subnet mask and Default gateway.
6. Enter the preferred DNS server address if necessary.
7. After entering all of the related values, click “OK” to finish the configuration.

Using a dynamic IP (PPPoE connection)

1. Repeat Step 1-3 in the previous section.
2. Select “Obtain an IP address automatically” and click “OK”.
3. Click “Create a new connection” to start the NEW Connection Wizard.
4. Click “Next”.
5. Select “Connect to the Internet” and click “Next”.
6. Select “Set up my connection manually”.
7. Select your connection type and click “Next”.
8. Enter your ISP Name and click “Next”.
9. Enter your User name and Password. Click “Next”.
10. Click “Finish” to finish the configuration.
11. Enter your user name and password. Click “Connect” to connect to the internet.

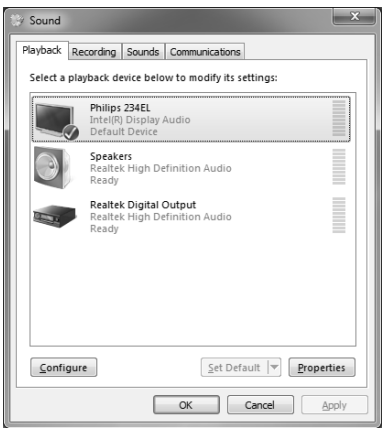

View your basic network information and set up connections
Choose a connection option
Connect to the Internet
Set up a new network
Manually connect to a wireless network
Connect to a workplace
Set up a dial-up connection
Next
Cancel

Note: Contact your internet Service Provider (ISP) if you have problems connecting to the network.

Configuring audio output via an HDMI device

Follow the steps below to enable audio output via HDMI when connecting the ZOTAC ZBOX nano to a TV or receiver via HDMI.

1. Access the Sound settings via the system Control Panel.
2. Under Playback devices, click the display device that corresponds with your HDMI audio compatible display
3. Click the “Set Default” button in the lower right hand corner.
4. Click “OK” to exit the setup.



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